

RESULT	1
AY448268	
ID	AY448268 standard; Protein: 81 AA.
XX	
AC	AY448268;
XX	
DT	08-DEC-1999 (first entry)
XX	
DE	Human prostate cancer-associated protein
XX	
KW	Expressed sequence tag; EST; prostate
RF	gene therapy; tissue specificity; human
XX	
OS	Homo sapiens.
XX	
PN	DE19811193-A1.
XX	
PD	16-SBP-1999.
XX	
PF	10-MAR-1998; 98DE-1011193.
XX	
PR	10-MAR-1998; 98DE-1011193.
XX	
PA	(META-) METAGEN GES GENOMFORSCHUNG MBH
XX	
PI	Specht, T., Hinzmann, B., Schmitt, A., P.
XX	
DR	WPI; 1999-511628/44.
N-PSDB	AAZ33467.
XX	
PT	New nucleic acid expressed at high level
PT	encoded polypeptides, useful for therapeutic agents -
PT	therapeutic agents -
XX	
ALIGNM	

Human gene 10 eno	Human protein sequu
Human	2-Macroglobu
Alpha	Human alpha-2-MR.
Crab metallothione	
Human endometrium	
Human ORX ORF1405	
Truncated TNF- $\alpha$ 1	
Tumour necrosis fa	
Truncated TNF- $\alpha$ 1	
Truncated TNF- $\alpha$ 1	
Truncated TNF- $\alpha$ 1	
Native 30 kDa TNF- $\alpha$	
Human soluble tumo	
Soluble tumour nec	
Tumour necrosis fa	
Human 30 kDa TNF- $\alpha$	
TPA signal peptide	
Human cancer assoc	
Exo-8 partial pro	
Truncated TNF- $\alpha$ 1	
Tumour necrosis fa	
Mus musculus L-mfa	
Plasmidom. falcipa	
Tnf1 protein TN	
TNF-R-GBH fusion	
Tumour necrosis fa	
TPB(20-100)HCG-be	
Human PRO-C-MG 64	
Human EG-1-like pro	
Human EG-1-like pro	
Tumour necrosis fa	
Tumour Necrosis fa	
Human polypeptide	

ט' ט' ט' ט' ט'

Result	No.	Query			DB	ID	Description
		Score	Match	Length			
1	30	58.8	81	20	AAY48268		Human prostate can
2	30	58.8	1081	20	AAY24319		Mouse daphnophoril
3	29	56.9	24	22	ABH92218		Toxin peptide SEQ
4	29	56.9	233	21	AAY74791		Neisseria meningit
5	28	54.9	462	18	AAW09876		Arabidopsis violax
6	28	54.9	473	18	AAW09874		Romaine lettuce vi
7	28	54.9	478	18	AAW09875		Tobacco violaxanth
8	27	52.9	79	21	AAY64946		Human 5' EST relat
9	27	52.9	144	22	AMM25276		Human protein sequ
10	27	52.9	403	22	AAY01547		Human protein 2' endo
11	27	52.9	428	22	AAB88457		Human hydroxobic

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution

## ALIGNMENTS

RESULT		1
AY48268	AY48268	Human prostate cancer-associated protein 54.
ID	AY48268	Expressed sequence tag; EST; prostate tumor; antitumor; gene therapy; tissue specificity human.
XX	AY48268	
XX	AY48268;	
AC		
XX		
DT	08-DEC-1999	(first entry)
XX		
DE		
XX		
KW		
KW		
		treatment;

PS Claim 22; 137; 166pp; German.  
 XX This invention describes novel nucleic acid sequences (A) that are  
 CC expressed at high level in prostatic tumor tissue and encode gene  
 CC products or their fragments. The products of the invention have  
 CC antitumor activity. Polypeptides (I) encoded by (A) are used: (i) for  
 CC identifying agents for treatment of prostate cancer and (ii) for  
 CC therapy of prostate cancer, optionally where expressed by gene therapy  
 CC methods. (A) is also used to isolate full-length genes (for gene therapy)  
 CC and for recombinant production of (I), which can be used to raise  
 CC specific antibodies. (A) are identified by assembly of ESTs (expressed  
 CC sequence tags) before they are analyzed for expression pattern (tissue  
 CC specificity). This approach eliminates many of the false results, as  
 CC regards tissue specificity, associated with known methods that use  
 CC single (usually short) ESTs. AAY48215-Y8303 represent protein fragments  
 CC encoded by the expressed sequence tags described in the method of the  
 CC invention.  
 XX Sequence 81 AA;

Query Match 58.8%; Score 30; DB 20; Length 1081;  
 Best Local Similarity 23.5%; Pred. No. 59;  
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2 CXXXXCXXXXCXXX 18  
 Db 197 cysygataggaaacagac 213

RESULT 3  
 AAB92218  
 ID AAB92218 standard; Peptide; 24 AA.  
 XX  
 AC AAB92218;  
 DT 22-JUN-2001 (first entry)  
 XX  
 DE Toxin peptide SEQ ID NO:1394.  
 XX  
 KW Protection; endogenous therapeutic peptide; peptidase; conjugation;  
 KW blood component; modification; succinimidyl; maleimidido group; amino;  
 KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO20069900-A2.  
 XX  
 PD 23-NOV-2000.  
 XX  
 PP 17-MAY-2000; 2000WO-US13576.  
 XX  
 PR 17-MAY-1999; 99US-0134406.  
 PR 10-SEP-1999; 99US-0153406.  
 PR 15-OCT-1999; 99US-0159783.  
 XX  
 PA (CONJ-) CONJUCHEM INC.  
 XX  
 PI Briddon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudau K;  
 XX  
 WPI; 2001-112059/12.  
 XX  
 PT Modifying and attaching therapeutic peptides to albumin prevents  
 PT peptidase degradation, useful for increasing length of in vivo activity  
 PT  
 XX  
 PS Disclosure; Page 652; 733pp; English.  
 XX  
 CC The present invention describes a modified therapeutic peptide (I)  
 CC comprising a therapeutically active amino acid region (III) and a  
 CC reactive group (II) (e.g. succinimidyl) and maleimido groups) attached to  
 CC a less therapeutically active amino acid region (IV), which covalently  
 CC bonds with amino/hydroxyl/thiol groups on blood components to form a  
 CC peptide stabilised therapeutic peptide composed of 3-50 amino acids.  
 CC (I) are useful for modifying therapeutic peptides e.g. hormones, growth  
 CC factors and neurotransmitters, to protect them from peptidase activity  
 CC in vivo for the treatment of various disorders. Endogenous therapeutic  
 CC peptides are not suitable as drug candidates as they require frequent  
 CC administration due to rapid degradation by peptidases in the body.  
 CC Modifying and attaching therapeutic peptides to albumin prevents or  
 CC reduces the action of peptidases to increase length of activity (half  
 CC life) and specificity as bonding to large molecules decreases  
 CC intracellular uptake and interference with physiological processes.  
 CC AAB9229 to AAB2441 represent peptides which can be used in the  
 CC exemplification of the present invention.  
 XX  
 SQ Sequence 24 AA;

Query Match 56.9%; Score 29; DB 22; Length 24;  
 Best Local Similarity 23.5%; Pred. No. 42;  
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY	2	CXXXXCXXXXCXXXC 18	2	CXXXXCXXXXCXXXC 18
Db	1	cksgssctsynccrsc 17	Db	173 caacta9tcacaacc 189
RESULT 4			RESULT 5	
AAV74791			AAW09876	
ID AAV74791 standard; Protein; 233 AA.			ID AAW09876 standard; Protein; 462 AA.	
XX			XX	
AC AAV74791;			AC AAW09876;	
XX			XX	
DT 21-MAR-2000 (first entry)			DT 28-JUL-1997 (first entry)	
XX			XX	
DE <i>Neisseria meningitidis</i> ORF 263 protein sequence SEQ ID NO:1056.			DE <i>Arabidopsis violaxanthin de-epoxidase</i> .	
XX			XX	
KW <i>Neisseria meningitidis</i> ; <i>Neisseria gonorrhoeae</i> ; antigen; vaccine;			KW <i>Violaxanthin de-epoxidase</i> ; VDE; light; photosensitivity;	
KW antigenic; diagnosis; immunogenic; infection; meningitis; septicaemia;			KW photoprotection; transgenic plant; zeaxanthin; antheraxanthin;	
KW antibacterial; gene therapy.			KW xanthophyll.	
XX			XX	
OS <i>Neisseria meningitidis</i> .			OS <i>Arabidopsis thaliana</i> var. <i>columbia</i> .	
XX			XX	
PN WO9557280-A2.			FH Key	
XX			FT Peptide	
PD 11-NOV-1999.			FT Peptide	
XX			FT Protein	
PF 30-APR-1999;		99WO-US09346.	FT Protein	
XX			FT Mat_protein	
PR 01-MAY-1998;		98US-0083758.	FT Peptide	
PR 31-JUL-1998;		98US-0094869.	FT Peptide	
PR 02-SEP-1998;		98US-0098994.	FT Domain	
PR 02-SEP-1998;		98US-0099062.	FT Domain	
PR 09-OCT-1998;		98US-0103749.	FT Misc-difference	
PR 09-OCT-1998;		98US-0103794.	FT Misc-difference	
PR 09-OCT-1998;		98US-0103796.	FT Misc-difference	
PR 25-FEB-1999;		99US-0121528.	FT Misc-difference	
XX			FT Misc-difference	
PA (CHIR ) CHIRON CORP.			FT Misc-difference	
PA (GENO-) INST GENOMIC RES.			FT Misc-difference	
XX			FT Misc-difference	
- PI Fraser C, Galeotti C, Grandi G, Hickey E, Masiagnani V, Mora M;			FT Misc-difference	
PI Petersen J, Pizza M, Rappoli R, Ratti G, Scalai E, Scarselli M;			FT Misc-difference	
PI Tettelin H, Venter JC;			FT Misc-difference	
XX			FT Misc-difference	
WPI; 2000-062550/05.			FT Misc-difference	
DR N-PSDB: AAZ53553.			FT Misc-difference	
XX			FT Misc-difference	
PT Novel <i>Neisseria</i> polypeptides predicted to be useful antigens for			FT Misc-difference	
PT vaccines and diagnostics			FT Misc-difference	
XX			FT Misc-difference	
PS Claim 2; Page 606; 1453pp; English.			FT Misc-difference	
XX			FT Misc-difference	
CC AAZ53015 to AAZ54536, AAZ54577 to AAZ54615, and AAY74253 to AAY75941			FT Misc-difference	
CC represent novel <i>Neisseria</i> meningitis and <i>N. gonorrhoeae</i> polynucleotides			FT Misc-difference	
CC and polypeptides. AAZ54537 to AAY54576 and AAZ54616 to AAZ54673 represent			FT Misc-difference	
CC PCR primers used in the exemplification of the present invention. The			FT Misc-difference	
CC polypeptides, the polynucleotides, antibodies and compositions of			FT Misc-difference	
CC the invention can be used as vaccines, as diagnostic reagents, and as			FT Misc-difference	
CC immunogenic compositions. The polypeptides can be used in the			FT Misc-difference	
CC manufacture of medicaments for treating or preventing infection due to			FT Misc-difference	
CC <i>Neisseria</i> bacteria (e.g. meningitis and septicaemia), to detect the			FT Misc-difference	
CC presence of <i>Neisseria</i> bacteria, or to raise antibodies. They may also			FT Misc-difference	
CC be used to screen for agonists or antagonists, which may themselves			FT Misc-difference	
CC have use as antibacterial agents. The polynucleotides of the invention			FT Misc-difference	
CC may also be used in gene therapy protocols.			FT Misc-difference	
XX			XX	
SQ Sequence 233 AA;			XX	
Query Match 56.9%; Score 29; DB 21; Length 233;			XX	
Best Local Similarity 23.5%; Pred. No. 67; Mismatches 0; Matches 4; Conservative 0;			PI Bugs RC, Rockholm DC, Yamamoto HY;	
Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;			XX PR 06-AUG-1996; 96US-0023502;	
SQ Sequence 233 AA;			PR 07-NOV-1995; 95US-0006315.	
			DR DR WPI; 1997-281036/25.	
			PA (CALG ) CALGENE INC.	



AAW09875  
 ID AAW09875 standard; Protein; 478 AA.  
 XX  
 AC AAW09875;  
 XX  
 DT 28-JUL-1997 (first entry)  
 XX  
 DE Tobacco violaxanthin de-epoxidase.  
 XX  
 KW Violaxanthin de-epoxidase; VDE; light; photosensitivity;  
 KW photoprotection; transgenic plant; zeaxanthin; antheraxanthin;  
 KW xanthophyll; tobacco.  
 XX  
 OS Nicotiana tabacum cv. xanthi.  
 XX  
 FH Location/Qualifiers  
 FT Peptide  
 FT /label="Transit\_peptide  
 FT Protein  
 FT /label="Mat\_protein  
 FT Peptide  
 FT /label="Mat\_protein  
 FT 1.134  
 FT 135..478  
 FT Domain  
 FT /label="Cys-rich\_domain  
 FT 135..2016  
 FT Domain  
 FT /label="Highly-charged\_domain  
 FT 385..478  
 FT Misc-difference 141  
 FT Misc-difference 143  
 FT /note="conserved Cys residue"  
 FT Misc-difference 148  
 FT /note="conserved Cys residue"  
 FT Misc-difference 155  
 FT /note="conserved Cys residue"  
 FT Misc-difference 161  
 FT /note="conserved Cys residue"  
 FT Misc-difference 167  
 FT /note="conserved Cys residue"  
 FT Misc-difference 171  
 FT /note="conserved Cys residue"  
 FT Misc-difference 180  
 FT /note="conserved Cys residue"  
 FT Misc-difference 184  
 FT /note="conserved Cys residue"  
 FT Misc-difference 190  
 FT /note="conserved Cys residue"  
 FT Misc-difference 206  
 FT /note="conserved Cys residue"  
 FT Misc-difference 252  
 FT /note="conserved Cys residue"  
 FT Misc-difference 382  
 FT /note="conserved Cys residue"  
 XX W09717447-A2  
 XX  
 PD 15-MAY-1997.  
 XX  
 PF 07-NOV-1996;  
 XX 96WO-US18291.  
 PR 06-AUG-1996;  
 PR 96US-0023502.  
 PR 07-NOV-1995;  
 XX 95US-0006315.  
 PA (CALJ ) CALGENE INC.  
 PI Bugos RC, Rockholm DC, Yamamoto HY;  
 XX  
 DR WPI; 1997-28-036/25.  
 DR N-PSDB; AAT66242.  
 XX  
 PT DNA encoding plant violaxanthin de-epoxidase - used to modify the  
 PT sensitivity of a plant to light  
 XX Disclosure; Fig 2; 41pp; English.  
 PS

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XX The 55 kDa violaxanthin de-epoxidase (VDE) (AAW09875) of tobacco  
 CC catalyses the de-epoxidation of violaxanthin to zeaxanthin and  
 CC antheraxanthin. This system, termed energy dependent non-radiative  
 CC energy dissipation or non-photochemical fluorescence quenching,  
 CC reduces the quantum efficiency of photosystem II (PSII), helping to  
 CC prevent PSII over-reduction and photoinhibitory damage. The amino  
 CC acid sequence of the VDE was deduced from an isolated cDNA clone  
 CC (AAT66242), VDE nucleic acids (see also AAT66241, AAT66243), in sense  
 CC or antisense orientation, can be used in generic constructs to  
 CC modify VDE levels in plants. Increased levels result in the plant  
 CC being tolerant of increased light and therefore more productive  
 CC and/or more resistant to disease. Underexpression of VDE increases  
 CC photosynthetic efficiency under low light. The photosensitivity of  
 CC a range of crops, trees and ornamentals can be modified.  
 XX  
 SQ sequence 478 AA;  
 XX  
 Query Match 54.9%; Score 28; DB 18; Length 478;  
 Best Local Similarity 23.5%; Pred. No. 1 2e+02;  
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2 CXXXXCXXXXCXXXXC 18  
 | | | |  
 Db 155 cisnpacaanaaqlqtc 171

RESULT 8  
 AAY61946  
 ID AAY61946 standard; Protein; 79 AA.  
 XX  
 AC AAY61946;  
 XX  
 DT 01-FEB-2000 (first entry)  
 XX  
 DE Human 5' EST related polypeptide SEQ ID NO:1107.  
 XX  
 KW Human; 5' EST; expressed sequence tag; secreted protein; diagnosis;  
 KW gene therapy; chromosome mapping; upstream regulatory sequence;  
 KW forensic; location; development; protein synthesis; stability;  
 KW regulation; identification.  
 XX  
 AC Homo sapiens.  
 XX  
 PN WO9953051-A2.  
 XX  
 PD 21-OCT-1999.  
 XX  
 PF 09-APR-1999; 99WO-1B00712.  
 XX  
 PR 09-APR-1998; 98US-0057719.  
 PR 28-APR-1998; 98US-0069047.  
 XX  
 PA (GEST ) GENSET.  
 XX  
 PI Dumas Milne Edwards J, Duclert A, Giordano J;  
 XX  
 DR WPI; 2000-038446/03.  
 DR N-PSDB; AAZ42560.  
 XX  
 PT Novel secreted protein 5' expressed sequence tag sequences used in  
 PT diagnostic, forensic, gene therapy, and chromosome mapping procedures  
 XX  
 PS Claim 3; Page 688; 837pp; English.  
 XX  
 CC AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST)  
 CC sequences, corresponding to human secreted proteins. AAY64651 to  
 CC AA65438 represent the EST-related proteins corresponding to AAZ42265 to  
 CC AA43052. The 5' ESTs can be used for producing secreted human gene  
 CC products. They can be used to identify and isolate 5' untranslated  
 CC regions (UTR) and upstream regulatory regions which control the  
 CC location, development stage, rate, and quantity of protein synthesis, as





XX DT 17-JUL-2001 (first entry)  
 XX Human gene 10 encoded secreted protein fragment, SEQ ID NO:183.  
 DE KW secreted protein; proliferative disorder; cancer; tumour;  
 KW fetal abnormality; developmental abnormality; haematopoietic disorder;  
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
 KW inflammation; allergy; neurological disorder; Alzheimer's disease;  
 KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;  
 KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;  
 KW cardiovascular disorder; angiogenic disorder; kidney disorder;  
 KW endocrine/intestinal disorder; pregnancy related disorder;  
 KW cell culture; chemotaxis; food additive; gene therapy;  
 KW binding partner identification.  
 XX OS Homo sapiens.  
 PN WO200134623-A1.  
 XX PD 17-MAY-2001.  
 XX PR 01-NOV-2000; 2000WO-US30037.  
 XX PR 05-NOV-1999; 99US-0163577.  
 XX PR 30-JUN-2000; 2000US-0215137.  
 XX PA (HUMA-) HUMAN GENOME SCI INC.  
 PI Ruben SM, Konatsoulis GA, Moore PA;  
 XX DR WPI; 2001-316490/33.  
 XX PT Nucleic acids encoding 29 human secreted polypeptides, useful for  
 PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's  
 PT disease and diabetic retinopathy -  
 XX PS Disclosure: Page 10; 535pp; English.  
 XX ADP05389-ADP05473 represent cDNAs corresponding to 29 human secreted  
 CC protein genes, and AAE01546-AAE01630 represent the proteins they encode.  
 CC AAE01631-AAE01660 represent human secreted protein fragments or variants.  
 CC The secreted proteins and their genes are useful for preventing,  
 CC treating or ameliorating medical conditions, e.g., by protein or gene  
 CC therapy. Pathological conditions can be diagnosed by determining the  
 CC amount of the new protein in a sample or by determining the presence of  
 CC mutations in the new genes. Specific uses are described for each of the  
 CC 29 genes, based on the tissues in which they are most highly expressed,  
 CC and include developing products for the diagnosis or treatment of  
 CC proliferative disorders, cancer, tumours, diseases of the immune system,  
 CC abnormalities, haematopoietic disorders, diseases of the foetal and developmental  
 CC allergies, neurological disorders (e.g., Alzheimer's disease,  
 CC Parkinson's disease), cognitive disorders, schizophrenia, asthma,  
 CC cardiovascular disorders (e.g., psoriasis), sepsis, diabetes, atherosclerosis,  
 CC gastrointestinal disorders, angiogenic disorders, kidney disorders,  
 CC disorders, and infections. The proteins can also be used to aid wound  
 CC healing and epithelial cell proliferation, to prevent skin aging due to  
 CC sunburn, to maintain organs before transplantation, for supporting cell  
 CC culture of primary tissues to regenerate tissues, to identify their  
 CC cognate ligands or binding partners, and in chemotaxis, and can be used  
 CC as a food additive or preservative to modify storage properties.  
 CC Antibodies specific for a protein of the invention can be used in  
 CC alleviating symptoms associated with the disorders mentioned above, and  
 CC in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked  
 CC immunosorbent assay (ELISA). The present sequence represents a human  
 CC secreted protein fragment referred to in the disclosure of the invention.  
 XX SQ Sequence 430 AA;  
 XX Qy 2 CXXXXXCCCCXXC 18  
 Db 333 cesdldvygtdcrtsc 349  
 RESULT 13  
 AAB5002  
 ID AAB95002 standard; Protein; 741 AA.  
 XX AC AAB95002;  
 XX DT 26-JUN-2001 (first entry)  
 XX DE Human protein sequence SEQ ID NO:16644.  
 XX KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.  
 XX OS Homo sapiens.  
 XX PN EP1074617-A2.  
 XX PD 07-FEB-2001.  
 XX PR 28-JUL-2000; 2000EP-0116126.  
 XX PR 29-JUL-1999; 99JP-0248036.  
 PR 27-AUG-1999; 99JP-0300953.  
 PR 11-JAN-2000; 2000JP-018776.  
 PR 02-MAY-2000; 2000JP-0183767.  
 PR 09-JUN-2000; 2000JP-0241899.  
 XX PA (HELI-) HELIX RES INST.  
 PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
 XX PI 16644; 2537pp + CD ROM; English.  
 XX DR 2001-318749/34.  
 XX PT Primer sets for synthesising polynucleotides, particularly the 5602  
 CC Primer sets for synthesising polynucleotides, particularly the 5602  
 CC full-length cDNAs defined in the specification, and for the detection  
 CC and/or diagnosis of the abnormality of the proteins encoded by the  
 CC full-length cDNAs -  
 XX PS Claim 8; SEQ ID 16644; 2537pp + CD ROM; English.  
 XX DR The present invention describes primer sets for synthesising 5602  
 CC full-length cDNAs defined in the specification. Where a primer set  
 CC comprises: (a) an oligo- $\alpha$ -r primer and an oligonucleotide complementary  
 CC to the complementary strand of a polynucleotide which comprises one of  
 CC the 5602 nucleotide sequences defined in the specification, where the  
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
 CC of an oligonucleotide comprising a sequence complementary to the  
 CC complementary strand of a polynucleotide which comprises a 5'-end  
 CC sequence and an oligonucleotide comprising a sequence complementary to a  
 CC polynucleotide which comprises a 3'-end sequence, where the  
 CC oligonucleotide comprises at least 15 nucleotides and the combination of  
 CC the 5'-end sequence/3'-end sequence is selected from those defined in  
 CC the specification. The primer sets can be used in antisense therapy and  
 CC in gene therapy. The primers are useful for synthesising polynucleotides,  
 CC particularly full-length cDNAs. The primers are also useful for the  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by  
 CC the full-length cDNAs. The primers allow obtaining of the full-length  
 CC cDNAs easily without any specialised methods. AAB0316 to AAB13628 and  
 CC AAB13633 to AAB18742 represent human cDNA sequences; AAB9246 to  
 CC AAB95893 represent human amino acid sequences; and AAB13632  
 CC represent oligonucleotides, all of which are used in the exemplification  
 CC of the present invention.  
 XX SQ Sequence 741 AA;

Query Match 52.9%; Score 27; DB 22; Length 741;  
 Best Local Similarity 23.5%; Pred. No. 2e+02;  
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXCXXXXCXXXAC 18  
 Db 328 cadedecaaagnpcshsc 344

RESULT 15  
 ID AAR60517 standard; Protein: 4544 AA.  
 XX  
 AC AAR47861;  
 XX DT 20-JUL-1994 (first entry)  
 XX DE Alpha 2-Macroglobulin/LDL-receptor related protein.  
 XX KW alpha-2 macroglobulin; Low Density Lipoprotein; LDL; receptor family;  
 KW LDL receptor related protein; LRP; small rhinovirus receptor; deriv;  
 KW minor Rhinovirus; alpha2MR/LRP.  
 XX OS Homo sapiens.  
 XX FH Key Location/Qualifiers  
 FT Misc-difference 211..260  
 FT /note= "50 residues not shown in SEQ.ID.NO.4"  
 FT Misc-difference 1990  
 FT /note= "Residue not shown in SEQ.ID.NO.4"  
 FT Misc-difference 3050  
 FT /note= "Residue not shown in SEQ.ID.NO.4"  
 XX PN WO9401553-A.  
 XX PD 20-JAN-1994.  
 XX PP 05-JUL-1993;  
 XX PR 08-JUL-1992;  
 PR 22-AUG-1992;  
 PR 19-FEB-1993;  
 XX PA (BOEH ) BOEHRINGER INGELHEIM INT GMBH.  
 PI Blaas D, Gruenberger M, Hofer F, Huettlinger M, Kerjaschki D;  
 PI Kowalski H, Kuechler E, Machat H;  
 XX DR WPI; 1994-035060/04.  
 XX PT New peptide derivs. of receptor for rhinovirus - of the small  
 PT receptor gp., and derived DNA, transformed cells and antibodies,  
 PT used e.g. to treat or prevent rhinovirus infection  
 XX PS Claim 5; Fig 2; 76pp; German.  
 XX CC Functional derivatives of members of the Minor Rhinovirus Receptor  
 CC group are claimed. The alpha-2 Macroglobulin/LDL-receptor related  
 CC protein of sequence AAR47861 (Herz et al. EMBO J. 7:4119-4127 (1988))  
 CC is a preferred parent receptor. The derivs, which are preferably  
 CC soluble, extracellular forms of the native receptors, are useful  
 CC for treating and preventing viral (esp. rhinoviral) infections.  
 CC N.B. the SEQ.ID. listing includes a sequence (no.4) which differs  
 CC from the alpha2-MR/LRP sequence as indicated in the Features Table.  
 XX SQ Sequence 4544 AA;

QY 2 CXXXXCXXXXCXXXAC 18  
 Db 2980 cadvdecasttffpcsrc 2996

RESULT 14  
 ID AAR60517;  
 XX AC AAR47861;  
 XX DT 22-MAR-1995 (first entry)  
 XX DE Human alpha-2-MR.  
 XX KW Serine protease; Factor-Xa; recognition site;  
 KW fusion protein cleavage; protein folding; alpha-2-MR;  
 KW alpha-2-macroglobulin receptor/low density lipoprotein receptor.  
 XX OS Homo sapiens.  
 XX PN WO9418227-A.  
 XX PD 18-AUG-1994.  
 XX PF 04-FEB-1994; 94WO-DK00054.  
 XX PR 04-FEB-1993; 93DK-0000130.  
 PR 05-FEB-1993; 93DK-0000139.  
 PR 03-DEC-1993; 93WO-GB02492.  
 XX PA (DENZ2-) DENZYME APS.  
 XX PI Etzerodt M, Holtet TI, Thøgersen HC;  
 XX DR WPI; 1994-279681/34.  
 XX PT Refolding of polypeptide molecules - using a cyclic process  
 PT involving denaturing and renaturing conditions to produce a  
 correctly folded prod  
 XX PS Disclosure: Page 131-146: 202pp; English.  
 XX CC Various domains and domain clusters of human alpha-2-MR protein  
 CC have been PCR amplified using the primers given in ARO71252-65.  
 XX SQ Sequence 4544 AA;

Query Match 52.9%; Score 27; DB 15; Length 4544;  
 Best Local Similarity 23.5%; Pred. No. 2.9e+02;  
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXCXXXXCXXXAC 18  
 Db 2980 cadvdecasttffpcsrc 2996

Search completed: February 13, 2002, 10:10:18  
 Job time: 116 sec

